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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Currently Amended) A method for creating or accessing a menu for audio content stored in a storage means, the content consisting of audio tracks, and the menu containing representations of said audio tracks, the method comprising
 - classifying the audio tracks into groups or clusters, wherein said classification is performed according to characteristic parameters of said audio tracks;
 - detecting addition of a new audio track;
 - determining characteristic parameters of the new audio track;
 - based on the determined characteristic parameters of the new audio track,
 elassifying determining that the new audio track may be classified into an existing first group or cluster;
 - detecting the number or a dissimilarity range of the tracks within said first cluster, including the new audio track;
 - if the detected number or dissimilarity range is above a minimum level, automatically creating a new, second cluster;
 - based on the respective characteristic parameters, assigning one or more of the audio tracks of said first cluster, including the new audio track, to the second cluster, while some audio tracks remain in the first cluster;
 - selecting automatically a first an audio track as being a representative for the second cluster into which the new audio track was classified, wherein the medoid of the second cluster is selected;
 - automatically generating a reproducible audio extract from said <u>first</u>
 representative audio track; and
 - associating said audio extract as representative of said <u>second</u> cluster to a menu list.
- (Previously Presented) Method according to claim 1, wherein said characteristic
 parameters used for classification of audio content comprise one or more audio
 descriptors, the audio descriptors being either physical features, or perceptual

features, or psychological or social features of the audio content.

- (Previously Presented) Method according to claim 1, wherein an audio track can be classified into more than one cluster.
- 4. (Previously Presented) Method according to claim 1, wherein the audio tracks within a cluster have variable order, so that the user listens to a randomly selected track when having selected a cluster, with said track belonging to said cluster.
- 5. (Previously Presented) Method according to claim 1, wherein a user can modify the result of automatic classification of audio tracks.
- 6. (Previously Presented) Method according to claim 1, wherein a user can modify the classification rules for automatic classification of audio tracks.
- (Previously Presented) Method according to claim 1, wherein the actual audio data are clustered within said storage means according to said menu.
- (Previously Presented) Method according to claim 1, wherein the audio extract is a sample from the audio track.
- (Previously Presented) Method according to claim 1, wherein audio extracts are created additionally for audio tracks not being representatives of clusters.
- (Previously Presented) Method according to claim 1, wherein the length of audio extracts is not predetermined.
- 11. (Previously Presented) Method according to claim 1, wherein one of said clusters has no representative track.

- 12. (Previously Presented) Method according to claim 1, wherein said menu is hierarchical, such that a cluster may contain one or more subclusters.
- 13. (Previously Presented) Method according to claim 1, wherein the classification rules are modified automatically if a defined precondition is detected, and a reclassification may be performed.
- 14. (Previously Presented) Method according to claim 13, wherein said precondition comprises that the difference between the number of tracks in a cluster and the number of tracks in another cluster reaches a maximum limit value.
- 15. (Previously Presented) Method according to claim 13, wherein said precondition comprises that all stored tracks were classified into one cluster, and the total number of tracks reaches a maximum limit value.
- 16. (Currently Amended) An apparatus for creating or accessing a menu for audio content stored on a storage means, the content consisting of audio tracks, and the menu containing representations of audio tracks, the apparatus comprising
 - means for automatically classifying the audio tracks into groups, or clusters, wherein said classification is performed according to characteristic parameters of said audio tracks;
 - means for detecting addition of a new audio track;
 - means for determining characteristic parameters of the new audio track;
 - means for elassifying, determining an existing first group or cluster, into which the new audio track may be classified, based on the determined characteristic parameters, the new audio track into an existing group or cluster;
 - means for detecting the number or a dissimilarity range of the tracks within said first cluster, after including said new audio track was classified into said cluster and before an audio track was selected as representative for said cluster,
 - means for automatically creating a new, second cluster if the detected number or dissimilarity range is above a minimum level;

- means for assigning some of the audio tracks of said cluster, including the newly added track, based on the respective characteristic parameters, one or more of the audio tracks of said first cluster, including the new audio track, to the new second cluster, while some audio tracks remain in said first cluster;
- means for automatically selecting an a first audio track as being a representative for the second cluster into which the new audio track was elassified, wherein the medoid of the second cluster is selected:
- means for automatically generating a reproducible audio extract from said <u>first</u>
 representative audio track; and
- means for associating said audio extract as representative of the second said cluster to a menu list.
- 17. (Currently Amended) Apparatus according to claim 16, further comprising
 - means for selecting and reproducing a first audio extract from a the first cluster;
 - means for a first user input, the input controlling whether the cluster associated with the first currently selected audio extract thumbnail is selected or not; and
 - means for a second user input, the input controlling whether another cluster is selected or not.
- 18. (Currently Amended) Apparatus according to claim 16, further comprising means for reading an audio track of the <u>a</u> selected cluster from said storage means for playback.
- 19. (Currently Amended) Method according to claim 1, wherein the audio extract is an audio sequence being synthesized from the actual audio track <u>rather than being an original sample</u>.
- 20. (Currently Amended) Method according to claim 1, further comprising after the step steps of elassifying the new audio track into an existing group or cluster and before the step of

selecting automatically as a second audio track as being a representative for the cluster into which the new audio track was classified, the steps of:

- detecting the number or a dissimilarity range of the tracks within said cluster;
- if the detected number or dissimilarity range is above a minimum level, automatically creating a new cluster;
- assigning some of the audio tracks of said cluster, including the newly added track, based on the respective characteristic parameters, to the new cluster while some audio tracks remain in said cluster;

and the method further comprising the steps of:

- selecting automatically an audio track being a representative for the new <u>first</u> cluster, wherein the medoid of the new <u>first</u> cluster is selected;
- automatically generating a reproducible new audio extract from said <u>second</u>
 audio track representative for the new cluster; and
- associating said new audio extract of the second audio track as representative of said new the first cluster to the menu list.
- 21. (Currently Amended) Method according to claim 20 1, wherein the step of assigning some one or more of the audio tracks of said first cluster to the new second cluster uses the K-means algorithm to decide which audio tracks are assigned to the new second cluster.
- 22. (Currently Amended) Method according to claim 20 1, wherein the minimum level to which the detected number of tracks within said <u>first</u> cluster is compared depends on the number of tracks in other existing clusters.
- 23. (Currently Amended) Apparatus according to claim 16, further comprising:
 - means for detecting the number or a dissimilarity range of the tracks within said cluster, after said new audio track was classified into said cluster and before an audio track was selected as representative for said cluster;
 - means for automatically creating a new cluster if the detected number or dissimilarity range is above a minimum level;
 - means for assigning some of the audio tracks of said cluster, including the newly added track, based on the respective characteristic parameters, to the new cluster while some audio tracks remain in said cluster;

and further comprising:

- means for automatically selecting a second audio track being the medoid audio track of the new cluster as representative for the new first cluster;
- means for automatically generating a reproducible new audio extract from said second audio track representative for the new cluster; and
- means for associating said new audio extract generated from the second audio track as representative of said new the first cluster to the menu list.
- 24. (Currently Amended) Apparatus according to claim 23 16, wherein the means for assigning some at least one of the audio tracks of said first cluster to the new second cluster uses the K-means algorithm to decide which audio tracks are assigned to the new second cluster.
- 25. (Currently Amended) Apparatus according to claim 24 16, wherein the minimum level to which the detected number of tracks within said first cluster is compared depends on the number of tracks in other existing clusters.
- 26. (New) Method according to claim 20, wherein another audio track was a representative of the first cluster before the new audio track was added, and said first audio track being representative of the first cluster is different from the other audio track that was representative of the first cluster before the new audio track was added.